Estimation and rounding

6 questions | 13 marks

Equivalent correct methods earn the corresponding marks.

1. Round 34,876 to the nearest hundred. [2 marks]

Keep the hundreds position.

The tens digit is 7, so round 8 hundreds up to 9 hundreds.

Answer: 34,900

2. Round 96,450 to the nearest thousand. [2 marks]

The hundreds digit is 4.

Keep 96 thousands and replace the later digits with zeros.

Answer: 96,000

3. Estimate 198×31 using convenient whole numbers. [2 marks]

Use $198 \approx 200$ and $31 \approx 30$.

$200 \times 30 = 6000$.

Answer: About 6,000

4. Estimate $592 \div 19$ using convenient whole numbers. [2 marks]

Use $592 \approx 600$ and $19 \approx 20$.

$600 \div 20 = 30$.

Answer: About 30

5. There are 51 tickets at 19 dollars each. Estimate the total, then find the exact cost. [3 marks]

Estimate with $50 \times 20 = 1000$.

Calculate $51 \times 19 = 51(20 - 1) = 1020 - 51 = 969$.

Answer: Estimate: 1,000 dollars; exact cost: 969 dollars.

6. Round 4,650 to the nearest thousand. [2 marks]

The hundreds digit is 6.

Round 4 thousands up to 5 thousands.

Answer: 5,000